



REPLACEMENT SHEET
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FIG. 1

| | Sample 1 | | Sample 2 | | Sample 3 | | Sample 4 | | Sample 5 | | Sample 6 | | Comparative Sample 1 | | Comparative Sample 2 | |
|---------------------------------|---|-----|-----------------------------|-----|-----------------------------|-----|-----------------------------|-----|-----------------------------|-----|-----------------------------|-----|-----------------------------|-----|-----------------------------|-----|
| | Needle-like Wollastonite | 4.5 | Needle-like Wollastonite | 4.5 | Needle-like Wollastonite | 4.5 | Needle-like Wollastonite | 4.5 | Needle-like Wollastonite | 4.5 | Needle-like Wollastonite | 4.5 | Needle-like Wollastonite | 4.5 | Needle-like Wollastonite | 4.5 |
| Properties of evaluated samples | Amount of particles (parts by weight) | | 1.0 | | 1.0 | | 1.0 | | 1.0 | | 1.0 | | 1.0 | | 1.0 | |
| | Shape of particles | | Needle-like | | Needle-like | | Needle-like | | Needle-like | | Needle-like | | Needle-like | | Needle-like | |
| | Material for particles | | Wollastonite | | Wollastonite | | Wollastonite | | Wollastonite | | Wollastonite | | Wollastonite | | Wollastonite | |
| | Particle hardness (Mohs hardness) | | 4.5 | | 4.5 | | 4.5 | | 4.5 | | 4.5 | | 4.5 | | 4.5 | |
| Evaluation results | Average grain size (μm) | | 4 | | 8 | | 13 | | 20 | | 40 | | 640 | | 10 | |
| | Average particle length (μm) | | 12 | | 40 | | 78 | | 360 | | 640 | | 10 | | 10 | |
| | Particle content (wt. %) | | 2.2 | | 2.2 | | 2.2 | | 2.2 | | 2.2 | | 2.2 | | 2.2 | |
| | Coating thickness (μm) | | 20 | | 20 | | 20 | | 20 | | 20 | | 20 | | 20 | |
| | Ease of coating | | 5 | | 5 | | 5 | | 4 | | 3 | | 5 | | 5 | |
| | Ease of cutting Test A | | 2 | | 3 | | 4 | | 4 | | 4 | | 1 | | 3 | |
| | Adhesive strength | | 5 | | 5 | | 5 | | 5 | | 5 | | 5 | | 5 | |
| | Overall evaluation | | Δ (12) | | \odot (14) | | \odot (14) | | \odot (13) | | Δ (12) | | \times (11) | | \times (9) | |
| Parameters | Parameter 1 | | \odot | | \odot | | \odot | | \odot | | \odot | | \times | | \times | |
| | Parameter 2 | | \times | | \times | | \times | | \times | | \times | | \times | | \times | |
| | Parameter 3 | | \times | | Δ (lower) | | \odot | | Δ (upper) | | \times | | \times | | \times | |
| | Parameter 4 | | \odot | | \odot | | \odot | | \odot | | \odot | | \times | | \times | |

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FIG. 2

| Properties of evaluated samples | Sample 4 | | Sample 7 | | Sample 8 | | Sample 9 | | Sample 10 | | Sample 11 | |
|---|---------------|--------------|--------------|-------|--------------|-------|------------------|-------|------------------|-------|--------------|-------|
| | Needle-like | Wollastonite | Needle-like | Glass | Needle-like | Glass | Needle-like | Glass | Needle-like | Glass | Needle-like | Glass |
| Amount of particles (parts by weight) | 1.0 | | 1.0 | | 0.3 | | 0.5 | | 0.4 | | 1.7 | |
| Shape of particles | | | | | | | | | | | | |
| Material for particles | | | | | | | | | | | | |
| Particle hardness (Mohs hardness) | | 4.5 | | 6.5 | | 6.5 | | 6.5 | | 6.5 | | 6.5 |
| Average grain size (μm) | | 12 | | 10 | | 10 | | 10 | | 10 | | 10 |
| Average particle length (μm) | | 264 | | 348 | | 348 | | 348 | | 348 | | 348 |
| Particle content (wt.%) | | 2.2 | | 2.2 | | 0.7 | | 1.1 | | 3.0 | | 3.6 |
| Coating thickness (μm) | | 20 | | 20 | | 20 | | 20 | | 20 | | 20 |
| Ease of coating | | 5 | | 5 | | 5 | | 5 | | 5 | | 5 |
| Ease of cutting Test B | | 2 | | 5 | | 3 | | 4 | | 5 | | 5 |
| Adhesive strength | | 5 | | 5 | | 5 | | 5 | | 4 | | 3 |
| Overall evaluation | Δ (12) | | \odot (15) | | \odot (13) | | \odot (14) | | \odot (14) | | \odot (13) | |
| Parameter 1 | \odot | | \odot | | \odot | | \odot | | \odot | | \odot | |
| Parameter 2 | \times | | \odot | | \odot | | \odot | | \odot | | \odot | |
| Parameter 3 | \odot | | \odot | | \odot | | \odot | | \odot | | \odot | |
| Parameter 4 | \odot | | \odot | | \times | | Δ (lower) | | Δ (upper) | | \times | |